

INVITATION TO BID		BID DUE DATE AND TIME	
BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL & MECHANICAL COLLEGE		<div style="text-align: center; font-size: 2em; font-weight: bold;">LSU</div> <div style="display: flex; justify-content: space-between;"> 05/19/2006 11:00 AM CT </div>	
SOLICITATION 000000592 VENDOR # VENDOR NAME AND ADDRESS <div style="border: 1px solid black; height: 80px; width: 100%; margin-top: 10px;"></div>		RETURN BID TO LSU LOUISIANA STATE UNIV. PURCHASING OFFICE 213 THOMAS BOYD HALL Baton Rouge LA 70803 BUYER Ashley E. Terrio, CPPB BUYER PHONE (225)578-2097 ISSUE DATE 04/27/2006	
TITLE: SPECTROMETER, MASS			
To Be Completed By Bidder			
1. _____ "No Bid" (sign and return this page only). 2. _____ My Company does not wish to receive future solicitations for this commodity code. 3. Specify your Delivery: To be made within _____ days after receipt of order. 4. Specify your Payment Terms: _____ Prompt payment cash discounts for less than 30 days and less than 1% will be accepted, but will not be considered in determining awards. On indefinite quantity term contracts, cash discounts will be accepted and taken, but will not be considered in determining awards. 5. Specify your Bid Reference Number: _____ (This number will appear on any resulting order or contract.)			
General Instructions to Bidders			
1. Sealed bids for furnishing the items and/or services specified are hereby solicited, and will be received by the issuing LSU Campus/Department at the "Return Bid To" address stated above, until the specified due date and time. 2. Bids must be signed by a person authorized to bind the vendor. In accordance with Louisiana R.S. 39:1594, the person signing the bid must be: (1) a current corporate officer, partnership member, or other individual specifically authorized to submit a bid as evidenced in the appropriate records filed with the Louisiana Secretary of State; or (2) an individual authorized to bind the vendor as evidenced by a corporate resolution, certificate or affidavit; or (3) other documents indicating authority which are acceptable to the public entity. 3. Read the entire solicitation, including all terms, conditions and specifications. 4. All bid information and prices must be typed or written in ink. Any corrections, erasures or other forms of alteration to unit prices are to be initialed by the bidder. 5. Bid prices shall include all delivery charges paid by the vendor, F.O.B. LSU Destination, unless otherwise provided in the solicitation. Any invoiced delivery charges not quoted and itemized on the LSU purchase order are subject to rejection and non-payment. 6. Payment is to be made within 30 days after receipt of properly executed invoice, or delivery and acceptance, whichever is later. Delinquent payment penalties are governed by L.R.S. 39:1695. 7. By signing this solicitation, the bidder certifies compliance with all general instructions to bidders, terms, conditions and specifications; and further certifies that this bid is made without collusion or fraud.			
BIDDER (Name of Firm)		MAILING ADDRESS	
AUTHORIZED SIGNATURE		CITY, STATE ZIP	
PRINTED NAME		PHONE #	
TITLE		FAX #	
E-MAIL		FEDERAL TAX ID #	

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These standard terms and conditions shall apply to all LSU solicitations, unless otherwise specifically amended and provided for in the special terms and conditions, specifications, or other solicitation documents. In the event of conflict between the General Instructions to Bidders or Standard Terms & Conditions and the Special Terms & Conditions, the Special Terms & Conditions shall govern.

Bids submitted are subject to provisions of the laws of the State of Louisiana, including but not limited to: the Louisiana Procurement Code (R.S. 39:1551-1736); Purchasing Rules and Regulations (Title 34 of the Louisiana Administrative Code); Executive Orders; and the terms, conditions, and specifications stated in this solicitation.

1. Bid Delivery and Receipt

To be considered, sealed bids must be received and time-stamped at the "Return Bid To" address no later than the due date and time specified herein. Sealed bids cannot be accepted by telegraph, fax, or e-mail. Price alterations and addenda to bids may be submitted by telegraph or fax, and will be considered provided bidder's sealed bid, price alterations and addenda have been received in the purchasing office prior to bid opening time. Late bids cannot be accepted per L.A.C. 34.I.517, and shall be returned unopened.

2. Bid Forms

Bids are to be submitted on and in accordance with the LSU solicitation forms provided, and must be signed by an authorized agent of the vendor. Bids submitted on other forms or in other price formats may be considered informal and may be rejected in part or in its entirety. Bids submitted in pencil and/or bids containing no original signature indicating the bidder's intent to be bound will not be accepted.

3. Interpretation of Solicitation/Bidder Inquiries

If bidder is in doubt as to the meaning of any part or requirement of this solicitation, bidder may submit a written request for interpretation to the Buyer-of-Record at the address and/or fax number shown above. Written inquiries must be received in the Purchasing Office no later than five (5) calendar days prior to the opening of bids, and shall be clearly cross-referenced to the relevant solicitation/specification in question.

No decisions or actions shall be executed by any bidder as a result of oral discussions with any LSU employee or consultant. Any interpretation of the documents will be made by formal addendum only, issued by the Purchasing Office, and mailed or delivered to all bidders known to have received the solicitation. LSU shall not be responsible for any other interpretations or assumptions made by bidder.

4. Bid Opening

Bidders may attend the public bid opening of sealed bids and proposals. No information or opinions concerning the ultimate contract award will be given at bid opening or during the evaluation process. Written bid tabulations will not be furnished. Bids may be examined within 72 hours after bid opening. Information pertaining to completed files may be secured by visiting the Purchasing Office during normal working hours.

5. Special Accommodations

Any "qualified individual with a disability" as defined by the Americans with Disabilities Act, who has submitted a bid and desires to attend the public bid opening, must notify the Purchasing Office in writing not later than seven days prior to the bid opening date of their need for special accommodations. If the request cannot be reasonably provided, the individual will be informed prior to the bid opening.

6. Standards of Quality

Any product or service bid shall conform to all applicable federal, state and local laws and regulations, and the specifications contained in the solicitation. Any manufacturer's name, trade name, brand name, or catalog number used in the specification is for the purpose of describing the standard of quality, performance, and characteristics desired; and is not intended to limit or restrict competition. Bidder must specify the brand and model number of the product offered in his bid. Bids not specifying brand and model number shall be considered as offering the exact product specified in the solicitation.

7. New Products/Warranty/Patents

All products bid for purchase must be new, never previously used, of the manufacturer's current model and/or packaging, and of best quality as measured by acceptable trade standards. No remanufactured, demonstrator, used or irregular products will be considered for purchase unless otherwise specified.

The manufacturer's standard published warranty and provisions shall apply, unless more stringent warranties are otherwise required by LSU and specified in the solicitation. In such cases, the bidder and/or manufacturer shall honor the specified warranty requirements, and bid prices shall include any premium costs of such coverage.

Bidder guarantees that the products proposed and furnished will not infringe upon any valid patent or trademark; and shall, at its own expense, defend any and all actions or suits charging such infringement, and shall save LSU harmless.

8. Descriptive Information

Bidders proposing an equivalent brand or model are to submit with the bid descriptive information (such as literature, technical data, illustrations, etc) sufficient for LSU to evaluate quality, suitability, and compliance with the specifications. Failure to

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submit descriptive information may cause bid to be rejected. Any changes made by bidder to a manufacturer's published specifications shall be verifiable by the manufacturer. If items bid do not fully comply with specifications, bidder must state in what respect items deviate. Bidder's failure to note exceptions in its bid will not relieve the bidder from supplying the actual products requested.

9. Bids/Prices/F.O.B. Point

- The bid price for each item is to be quoted on a "net" basis and F.O.B. LSU Destination, i.e. title passing upon receipt and inclusive of all delivery charges, any item discounts, etc.
- Bids other than F.O.B. LSU Destination may be rejected.
- Bids indicating estimated freight charges may be rejected.
- Bids requiring deposits, payment in advance, or C.O.D. terms may be rejected.
- Bidders who do not quote "net" item prices and who separately quote an overall "lump sum" freight cost or discount for all items shall be considered as submitting an "all-or-none" bid for evaluation and award purposes; and risk rejection if award is made on an item basis.
- Prices shall be firm for acceptance for a minimum of 30 days, unless otherwise specified. Bids conditioned with shorter acceptance periods may be rejected.
- Prices are to be quoted in the unit/package specified (e.g. each, 12/box, etc), or may be rejected.
- In the event of extension errors, the unit price bid shall prevail.

10. Taxes

Vendor is responsible for including all applicable taxes in the bid price. LSU is exempt from all Louisiana state and local sales and use taxes. By accepting an award, resident and non-resident firms acknowledge their responsibility for the payment of all taxes duly assessed by the State of Louisiana and its political subdivisions for which they are liable, including but not limited to: franchise taxes, privilege taxes, sales taxes, use taxes, ad valorem taxes, etc.

11. Terms and Conditions

This solicitation contains all terms and conditions with respect to the purchase of the goods and/or services specified herein. Submittal of any contrary terms and conditions may cause your bid to be rejected. By signing and submitting a bid, vendor agrees that contrary terms and conditions which may be included in its bid are nullified; and agrees that this contract shall be construed in accordance with this solicitation and governed by the laws of the State of Louisiana.

12. Vendor Forms/LSU Signature Authority

The terms and conditions of the LSU solicitation and purchase order/contract shall solely govern the purchase agreement, and shall not be amended by any vendor contract, form, etc.

The University's chief procurement officer, or authorized designee, is delegated sole authority to execute/sign any vendor contracts, forms, etc, on behalf of LSU. Departments are expressly prohibited from signing any vendor forms.

Any such vendor contracts/forms bearing unauthorized signatures shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom. Vendors who present any such forms to department users for signature without regard to this strict LSU policy may face contract cancellation, suspension, and/or debarment.

13. Awards

Award will be made to the lowest responsible and responsive bidder. LSU reserves the right: (1) to award items separately, grouped, or on an all-or-none basis, as deemed in its best interest; (2) to reject any or all bids and/or items; and (3) to waive any informalities.

All solicitation specifications, terms and conditions shall be made part of any subsequent award as if fully reproduced and included therein, unless specifically amended in the formal contract.

14. Acceptance of Bid

Only the issuance of an official LSU purchase order/contract, a Notification of Award letter, or a Notification of Intent to Award letter shall constitute the University's acceptance of a bid. LSU shall not be responsible in any way to a vendor for goods delivered or services rendered without an official purchase order/contract.

15. Applicable Law

All contracts shall be construed in accordance with and governed by the laws of the State of Louisiana.

16. Awarded Products/Unauthorized Substitutions

Only those awarded brands and numbers stated in the LSU contract are approved for delivery, acceptance, and payment purposes. Any substitutions require prior approval of the Purchasing Office. Unauthorized product substitutions are subject to rejection at time of delivery, post-return at vendor's expense, and non-payment.

17. Testing/Rejected Goods

Vendor warrants that the products furnished will be in full conformity with the specification, drawing or sample, and agrees that this warranty shall survive delivery, acceptance, and use. Any defect in any product may cause its rejection. LSU reserves the right to test products for conformance to specifications both prior to and after any award. Vendor shall bear the cost of testing

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if product is found to be non-compliant. All rejected goods will be held at vendor's risk and expense, and subject to vendor's prompt disposition. Unless otherwise arranged, rejected goods will be returned to the vendor freight collect.

18. Delivery

Vendor is responsible for making timely delivery in accordance with its quoted delivery terms. Vendor shall promptly notify the LSU Department and/or Purchasing Office of any unforeseen delays beyond its control. In such cases, LSU reserves the right to cancel the order and to make alternative arrangements to meet its needs.

19. Default of Vendor

Failure to deliver within the time specified in the bid/award will constitute a default and may be cause for contract cancellation. Where the University has determined the vendor to be in default, LSU reserves the right to purchase any or all goods or services covered by the contract on the open market and to surcharge the vendor with costs in excess of the contract price. Until such assessed surcharges have been paid, no subsequent bids from the defaulting vendor will be considered for award.

20. Vendor Invoices

Invoices shall reference the LSU purchase/release order number, vendor's packing list/delivery ticket number, shipping/delivery date, etc. Invoices are to be itemized and billed in accordance with the order, show the amount of any prompt payment discount, and submitted on the vendor's own invoice form. Invoices submitted by the vendor's supplier are not acceptable.

21. Delinquent Payment Penalties

Delinquent payment penalties are mandated and governed by Louisiana R.S. 39:1695. Vendor penalties to the contrary shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom.

22. Assignment of Contract/Contract Proceeds

Vendor shall not assign, sublet or transfer its contractual responsibilities, or payment proceeds thereof, to another party without the prior written consent and approval of the Purchasing Office. Unauthorized assignments of contract or assignments of contract proceeds shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom.

23. Contract Cancellation

LSU has the right to cancel any contract for cause, in accordance with purchasing rules and regulations, including but not limited to: (1) failure to deliver within the time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality or to be delivered in good condition; (3) misrepresentation by the vendor; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the University; (5) conflict of contract provisions with constitutional or statutory provisions of state or federal law; (6) any other breach of contract.

LSU has the right to cancel any contract for convenience at any time by giving thirty (30) days written notice to the vendor. In such cases, the vendor shall be entitled to payment for compliant deliverables in progress.

24. Prohibited Contractual Arrangements

Per Louisiana R.S. 42:1113.A, no public servant, or member of such a public servant's immediate family, or legal entity in which he has a controlling interest shall bid on or enter into any contract, subcontract, or other transaction that is under the supervision or jurisdiction of the agency of such public servant. See statute for complete law, exclusions, and provisions.

25. Equal Employment Opportunity Compliance

By submitting and signing this bid, vendor agrees to abide by the requirements of the following as applicable: Title VI and VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972; federal Executive Order 11246; federal Rehabilitation Act of 1973, as amended; the Vietnam Era Veteran's Readjustment Assistance Act of 1974; Title IX of the Education Amendments of 1972; the Age Act of 1975; the Americans with Disabilities Act of 1990. Vendor agrees not to discriminate in its employment practices, and will render services under any contract entered into as a result of this solicitation without regard to race, color, religion, sex, age, national origin, veteran status, political affiliation, handicap, disability, or other non-merit factor. Any act of discrimination committed by vendor, or failure to comply with these statutory obligations when applicable, shall be grounds for termination of any contract entered into as a result of this solicitation.

26. Mutual Indemnification

Each party hereto agrees to indemnify, defend, and hold the other, its officers, directors, agents and employees harmless from and against any and all losses, liabilities, and claims, including reasonable attorney's fees arising out of or resulting from the willful act, fault, omission, or negligence of the indemnifying party or of its employees, contractors, or agents in performing its obligations under this agreement, provided however, that neither party hereto shall be liable to the other for any consequential damages arising out of its willful act, fault, omission, or negligence.

27. Certification of No Suspension or Debarment

By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof, are not suspended or debarred under federal or state laws or regulations. A list of parties who have been suspended or debarred by federal agencies is maintained by the General Services Administration and can be viewed on the internet at www.epls.gov.

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- 01 Equipment must include one year warranty and one year extended warranty. Extended warranty must include minimum of one preventive maintenance. Price must include installation.
- 02 These items have been approved as proprietary specifications. Only the brands and models specified will be acceptable.
- 03 A preference, if applicable, may be allowed for products produced, manufactured, assembled, grown or harvested in Louisiana. Do you claim this preference? Yes ____ No ____ . Note: Preferences shall not apply to service contracts. Is your Louisiana business workforce composed of a minimum of fifty percent Louisiana residents? Yes ____ No ____ . Specify Item Number and location within Louisiana where the product is/was produced, manufactured, assembled, grown or harvested: _____ Note: This preference is not applicable for services.
- 04 LSU is a member of the National Association of Educational Buyers (NAEB) and the E & I Cooperative Purchasing Service.
- 05 If an automobile is utilized in the execution of the contract, including deliveries made with company owned, hired, and/or non-owned vehicles, successful bidder shall be required to furnish a certificate of insurance evidencing coverages per attached insurance requirements. The Board of Supervisors of Louisiana State University and Agricultural and Mechanical College shall be named as an additional insured on all liability policies.
- 06 Delivery may be a consideration in the award. State number of calendar days you require for delivery after Notification of Award (NOA): _____.
- 07 Sealed Bid Delivery Instructions and Advisory: To assure consideration, your bid must be submitted in a sealed envelope or package and should be clearly and prominently marked with the solicitation number and bid due date, or may be submitted in the special bid return envelope if one was furnished for that purpose. Bidders are advised that the U.S. Postal Service does not make deliveries to our physical location. USPS mail is delivered to the University's mail center and is redelivered using internal resources. Bidders may deliver bids by hand or by a courier service to our physical location at the "Return Bid To" address specified. The University shall not be responsible for any delays caused by the Bidder's chosen means of bid delivery. Bidder is solely responsible for the timely delivery of its bid, and failure to meet the bid due date and time shall result in rejection of the bid. Your attention is also directed to Standard Terms & Conditions No. 1 - Bid Delivery and Receipt.

PRICE SHEET**INVITATION TO BID**

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ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
0001	UNLESS SPECIFIED ELSEWHERE, SHIP ALL ITEMS TO: LSU PENNINGTON BIOMED RSCH CT Proteomics Core 6400 Perkins Road Baton Rouge, LA 70808 ALL-OR-NONE AWARD: It is the intent of the University to award all items on an all-or-none basis to the overall lowest responsive and responsible bidder. Commodity Code: 490-55 Spectrometer, Mass 5975 Inert MSD/DS Perf Turbo CI Bundle Agilent G3245A	1.00	EA	\$	\$
0002	Commodity Code: 490-55 Software, NIST 05 MS Library Agilent G1033A	1.00	EA	\$	\$
0003	Commodity Code: 490-55 Module, Autoinjector, 7683B Agilent G2913A	1.00	EA	\$	\$
0004	Commodity Code: 490-55	1.00	EA	\$	\$

PRICE SHEET**INVITATION TO BID**

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ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
0005	Module, Autosampler tray 7683B, Agilent G2614A	1.00	EA	\$	\$
0005	Commodity Code: 493-11 Chromatograph, Gas 6890 Agilent G1942N	1.00	EA	\$	\$
0006	Commodity Code: 490-55 System, Flip Top Inlet Sealing	1.00	EA	\$	\$

**BOARD OF SUPERVISORS
LOUISIANA STATE UNIVERSITY AND
AGRICULTURAL & MECHANICAL COLLEGE
Purchasing Office, 213 Thomas Boyd Hall
Baton Rouge, LA 70803-3001**

INSURANCE REQUIREMENTS

WORKMEN'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE: The Contractor shall, before commencing any work to be conducted under this contract, procure Workmen's Compensation and Employer's Liability insurance with a limit of liability as required by the Labor Code of the State of Louisiana with an insurance company authorized to write such policies of insurance in the State of Louisiana. It shall be the further responsibility of the Contractor to require that all subcontractors have in full force and effect, a policy of Workmen's Compensation and Employer's Liability insurance before proceeding with any of the work required under this contract. The Employer's Liability limit shall be \$1,000,000 when work is over water and involves maritime exposure.

COMMERCIAL GENERAL LIABILITY INSURANCE: Commercial General Liability Insurance with a combined single limit of \$1,000,000 per occurrence for bodily injury and property damage. This insurance shall include the following coverage:

1. Premises - Operations;
2. Broad Form Contractual Liability;
3. Products and Completed Operations;
4. Use of Contractors and Subcontractors;
5. Personal Injury;
6. Broad Form Property Damage;
7. Explosion, Collapse and Under ground (XCU) Coverage.

BUSINESS AUTOMOBILE LIABILITY INSURANCE: Business Automobile Liability Insurance with a combined single limit of \$1,000,000 per occurrence for bodily injury and property damage, unless otherwise indicated. This insurance shall include for bodily injury and property damage the following coverages:

1. Owned automobiles;
2. Hired automobiles;
3. Non-owned automobiles.

If the vendor/contractor does not own an automobile and an automobile is utilized in the execution of the contract, then only hired and non-owned coverage is acceptable. If an automobile is not utilized for the execution of the contract, then automobile coverage is not required.

Board of Supervisors of Louisiana State University and Agricultural & Mechanical College shall be named as additional insured on all liability policies. A Thirty (30) day prior notice of cancellation must be given to the University for all required coverages. Insurance must be from a company with an A.M. Best's rating of no less than A:-VI who is authorized to do business in the State of Louisiana. The A.M. Best's rating requirement may be waived for Worker's Compensation only.

The successful contractor is to provide the owner with a certificate of insurance prior to commencement of work.

Specifications for GC/MS System

The GC/MS system includes the following items and must meet all specifications without exception for the bid to qualify for consideration. Any variation or exception must be explained item by item.

The system will include a gas chromatograph, mass spectrometer, data system, and automatic liquid sampler.

Gas Chromatograph (Equivalent to or exceeds Agilent 6890)

- Microprocessor controlled gas chromatograph with the following
 - a) Functional keyboard with four line alphanumeric display (set point and actual).
 - b) Three ramp temperature programmable oven.
 - c) Control of six heated zones plus the oven temperature.
 - d) Clock time programming to allow user to have the instrument come on at a specified time, and be at operating temperature and stable when use is required.
 - e) Built-in diagnostics and comprehensive self tests.
 - f) Electronic Pneumatics Control of all gas flows, including detectors, constant flow, pressure pulse and vacuum compensation for use with mass spectrometer.
 - g) LAN communications Interface
- The oven must be controllable from ambient temperature plus 4° to 450°C. The ramp rate must be from 0° to 70°C/min in 0.1°C increments. The oven size shall be large enough to accommodate capillary columns on 10-inch diameter baskets, with columns installed in both inlets. Pulse and vacuum compensation modes. Maximum oven temperatures may be set to protect columns.
- Must allow for ambient pressure compensation. Pressure must be measured throughout an injection sequence. Constant flow mode should be allowed.
- The set points may be entered or changed from either the GC keyboard or under data system control. The GC keyboard may be locked to prevent changes while allowing monitoring of any temperature zone or time event.
- The GC must have a capillary split-splitless injection port which are capable of supporting capillary columns. The inlet must have Electronic Pneumatic Control when using capillary direct injection and incorporate both forward and backward pressure modes of operation. This requirement assures constant linear velocity throughout the entire analysis. Vacuum compensation mode for use with a GC/MS is required. Pressure pulse mode for injection of large sample volumes and a gas saver mode must be a standard feature. User selectable for pressure or flow mode with temperature compensation. Shall also be able to read atmospheric pressure in real time and compensate for ambient laboratory changes.

Gas Chromatograph/Mass Spectrometer Data System

The GC/MS data system package for the GC/MS instrument must meet the following minimum requirements.

- The gas chromatograph/mass spectroscopy application software must operate within the Microsoft Windows XP graphical user environment. The software is to be a Win32 application consisting of modules for configuration, sequencing, instrument control and data analysis.
- The system must be able to provide for the acquisition of up to four system detectors: GC, MSD, and a combined GC/MSD. Any one Chemstation must control a minimum of two

MSD's.

- The system must incorporate local network (LAN) based instrument communication. A complete software package for control of the gas chromatograph, mass spectrometer, and autosampler is required. The system must completely control the gas chromatograph(s) including all temperature zones, oven temperature rates, detector Settings, valve operations, and all of the pressure programmable injections ports. The system must be able to control dual autosamplers and support dual tower configuration. In addition, it must include the capability to control autotunes, data acquisition, data analysis, method automation, macro programming, reporting and system management utilities. The system must be capable of performing an autotune with PFTBA, DFTPP, and BFB. Methods must be able to perform individual functions or groups of functions, including user created programs into a complete acquisition analysis process.
- Data acquisition shall be either a scan or selected ion-monitoring mode.
- The software is to allow complete control of all operating parameters; including control of all of the pressure programming capabilities of the EPC capillary injection port. Data analysis should allow individual spectra to be selected, subtracted, and searched against either published or user created libraries.
- System must have the capability for the user to add libraries or to create custom libraries from their won spectra. System must also be able to search a library, and if match quality is not greater than user defined settings, have the ability to then automatically search a second library.
- The user shall be able to generate custom reports using the integrated report generator.
- The system shall be capable of existing on a Windows compatible network and transferring the files transparently to and from other PC's on the network.
- Operating modes of the data system will include: Standard, Enhanced, Enviroquant, Reformulated Gas Analysis, and Drug Analysis and shall be selectable by the operator from the methods menu.
- The system must be capable of priority sampling without stopping an auto sequence. System must be able to make simultaneous injections on front and rear towers for a temperature programmed run when controlling gas chromatographs.
- The system must offer instrument control through a built-in communication interface. Separate analog to digital converters are not acceptable due to the space limitation considerations and detector requirements.
- The system must allow up to 1000 compounds to be individually calibrated with up to 20 levels. To include linear, piecewise, logarithmic, power, exponent, and quadratic curve fits.
- The system must provide percent, normalized percent, external standard, external standard percent, and internal standard methods, all based on either height or area. Must be capable of having up to 99 internal standard peaks.
- The system must be capable of operating on a local area network to store data on another disk on the network. The system must also be able to use a network printer or plotter to generate a hard copy output or otherwise utilize share network resources.
- The system must be capable of generating customized reports for either printing or for export to some other program for further data manipulation or calculation. Must include context specific help screens throughout the software to provide online help to assist a novice user.
- The system must be able to be used with MS Excel and also be able to allow for the user-defined customer reporting.

Agilent 5975 mass spectrometer

- The system must use a 30 m x 0.25 mm x 0.25 μ m HP-5MS or equivalent column for checkout. The instrument must pass the sensitivity check at [give the ionization mode, s/n ratio, amount, scan range, and ion to check]. The acquisition must be done at a linear rate for the entire scan range. The column must be left installed in the instrument when installation is completed.

- The scan speed of the instrument must be up to 10,000 amu/sec.
- The instrument must offer SIM capabilities of 100 groups of 60 ions.
- The instrument must scan up to 1050 Da (amu).
- The quadrupole must be heatable up to 200C.
- The system must be able to offer trace RT repeatability of <0.0012 min and area repeatability of < 2.0% RSD. Three replicate injections of 1 pg OFN using MS detection and automated integration and processing is used.
- The system must offer a way to package and transfer complete analytical methods including instrument conditions and target compounds from one 5973 to and from a more recent model. The manufacturer must offer methods that can be downloadable for use on the laboratory instrument to meet the compatibility requirement with existing mass spectrometry equipment.
- The system must offer an inert source (not stainless steel) that is made of a solid material.
- The system must offer a quadrupole made of a single piece of material so that it cannot become misaligned.
- The liquid autosampler must allow movement from one port to another (on the same or different instruments) without manual realignment.
- The system must offer an optional means to quickly remove and replace the injection liner without using tools.
- The ion source, lenses, quadrupole and detector must be removable from the instrument as one unit in less than 1 minute after venting.
- The system must offer automatic tuning required meeting US EPA specifications for DFTPP and BFB. The system must adjust all parameters and print out a report showing that the instrument passed.
- The system must offer the capability to customize the software and automation via a macro language. The help system on the data system must provide information on the commands available and how they are used.
- The system must be able to acquire both SIM/scan data during the entire runtime. Software must be provided to create the SIM method (with group times and ions) automatically from a standard data file. This SIM method is run concurrently with a scan method
- The system must offer a way to provide the same retention time after column maintenance. It must also offer a way to transfer a method to another instrument and maintain the retention times.
- The system must allow control of two instruments using one data system. The MS must include a digital display and control unit for basic operations without the data system located next to it.

Automatic Liquid Sampler

The system must be equipped with an automatic liquid sampler for use with the GC in this bid specification with the following requirements.

- The autosampler must have a 100 sample capacity tray that can be connected to a circulating bath for constant temperature control.
- The autosampler must have the capacity of offering priority sampling without stopping an auto sequence.
- The autosampler must be able to perform injections as fast as 0.17 seconds or slow enough to make automated on-column capillary injections. Injections into 0.53, 0.32, or 0.25 columns without the addition of a retention gap must be a standard feature.
- The autosampler must use a robotic arm to retrieve sampler vials, place vials in sample carousel and make injections.
- The autosampler must be controlled through the GC/MS data system.
- The autosampler must have capability to perform ambient temperature headspace sampling.